AP Calculus AB Tuesday, April 16, 2013

Present two more problems Derivatives/Integrals of natural log, e, and inverse trig functions Go over diagnostic

$$() f(x) = e^{\sin x^{2}} f'(x) = (a \circ x)e^{\sin x} \\ Find f'(x).$$

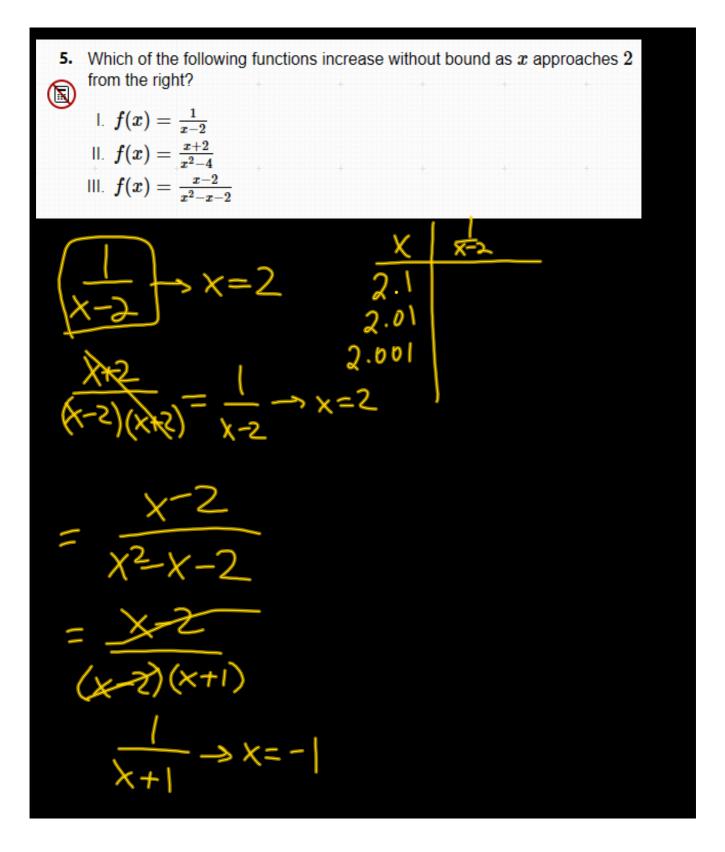
$$(2) f(x) = e^{3x} (f'(x)) = 3e^{3x} \\ find f'(x))$$

$$(3) \frac{1}{3}e^{3x} dx \\ Let u = 3x \\ du = 3dx \\ \frac{1}{3}e^{u} du \\ = \frac{1}{3}e^{u} + C \\ = \frac{1}{3}e^{3x} + C \\ \frac{1}{3}e^{2x} dx$$

$$(4) \int \frac{4}{x} dx$$

$$(4) \int \frac{4}{x} dx$$

$$(a - 2a) \int \frac$$



17. If $f(x) = \sqrt{x}$ for all real numbers x, then there exists a number c in the interval 0 < x < 4 that satisfies the conclusion of the Mean Value Theorem. Which of the following could be c? Can use MVT be f(x) is co (0,4). (4,2) f(x)(0,0) Msec $f'(x) = \frac{1}{2}x^{-1/2}$ VC C =

